1		The Honorable Barbara Jacobs Rothstein	
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8		S DISTRICT COURT ICT OF WASHINGTON	
9	WESTERN DISTRI		
10	UNITED STATES OF AMERICA,		
11	Plaintiff )	Civil Action No. CV02-1178R	
12	v. )	APPENDIX A TO THE CONSENT DECREE BETWEEN THE UNITED	
13	SHELL PIPELINE COMPANY LP fka ) EQUILON PIPELINE COMPANY LLC )	STATES OF AMERICA AND SHELL PIPELINE COMPANY LP	
14	and OLYMPIC PIPE LINE COMPANY, )  Defendants.	fka EQUILON PIPELINE COMPANY LLC (OTHER RELIEF)	
15			
16	I. DEFINITIONS		
17	1. The terms used in this Appendix shall	have the meaning assigned to them in Paragraph 4	
18	of the Consent Decree to which this Appendix is attached. Whenever terms listed below		
19	are used in this Appendix or in the Exl	nibits attached to this Appendix, the following	
20	definitions shall apply:		
21	a. "AGA" shall mean the Americ		
22	S	mean an AGA publication entitled "A Modified	
23	_	maining Strength of Corroded Pipe," December,	
24		ed to, and incorporated into this Appendix as	
25	Exhibit 1.		
26	APPENDIX A - CV02-1178R Draft - December 27, 2002	United States Department of Justice Post Office Box 7611 Washington, D.C. 20044-7611 Telephone: 202-305-0300	

1	c.	"Analyzed ILI Data" shall mean a final wri	tten report from an ILI Vendor or
2		other qualified employee or agent of Shell	analyzing raw data from an ILI to
3		identify suspected or predicted defects and	anomalies.
4	d.	"API" shall mean American Petroleum Inst	itute.
5	e.	"API RP 1110" shall mean a document enti	itled "Pressure Testing of Liquid
6		Petroleum Pipelines," API Recommended l	Practice 1110, 4 <sup>th</sup> Edition,
7		March, 1997, a copy of which is attached to	o, and incorporated into this Appendix
		as Exhibit 2.	
8	f.	"API 1161" shall mean a document entitled	1 "Guidance Document for the
9		Qualification of Liquid Pipeline Operations	s and Maintenance Personnel,"
0		API Publication 1161, 1st Edition, August,	2000, a copy of which is attached to,
1		and incorporated into this Appendix as Exh	aibit 3.
12	g.	"API 1130" shall mean a document entitled	l "Computational Pipeline
13		Monitoring," API 1130, First Edition, Octo	ber, 1995, a copy of which is attached
4		to, and incorporated into this Appendix as l	Exhibit 4.
15	h.	"ASME" shall mean the American Society	of Mechanical Engineers.
16	i.	"ASME B31.4-2002" shall mean a docume	ent entitled "Pipeline Transportation
17		Systems for Liquid Hydrocarbons and Other	er Liquids, ASME Code for Pressure
18		Piping," 2002 edition, a copy of which is at	ttached to, and incorporated into this
9		Appendix as Exhibit 5.	
20	j.	"ASME B31G-1991" shall mean a docume	nt entitled "Manual for Determining
21		the Remaining Strength of Corroded Pipeli	nes, A Supplement to ASME B31
		Code for Pressure Piping," 1991 edition, a	copy of which is attached to, and
22		incorporated into this Appendix as Exhibit	6.
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- k. "Cathodic Protection System" shall mean a system to prevent the corrosion of a metal surface by making that surface the cathode of an electrochemical cell with the use of impressed current or galvanic anodes.
- 1. "Commercially Navigable Waterway" shall mean a commercially navigable waterway as defined and identified pursuant to 49 C.F.R. §§ 195.450, 195.452.
- m. "EFRD" shall mean an emergency flow restricting device that either is a check valve (a type of valve that permits fluid flow in one direction only), or a valve that can be remotely operated from another monitoring or control location, including an existing valve that will be converted to a remotely operated valve that can be operated from another monitoring or control location.
- n. "Engineering Judgment" shall mean judgment based on the application of scientific and mathematical principles to the design, construction, operation, and maintenance of pipeline systems, with such judgment exercised by a suitably qualified person.
- o. "Excavation Activity" shall mean digging, deep plowing, blasting, boring, directional drilling, other trench-less excavation methods, clearing, grading, ditching, tunneling, dredging, back-filling, the removal of above-ground structures by either explosive or mechanical means, and other earth moving operations.
- p. "Excavator" shall mean any person or entity engaging in Excavation Activity.
- q. "Exposed Pipe" shall mean any pipe at or above any body of water or at or above ground level, unless (1) the pipe was intentionally designed and intentionally installed above ground (a) to traverse land; (b) as an overhead crossing of a body of water, a highway, a railroad, or similar structure; (c) as a span over a ditch or gully; (d) as part of a scraper trap or block valve; or (e) within a fenced area owned, leased, or maintained by Shell constituting a pump station, tank farm,

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1		metering facility, delivery fac	ility, or junction	on; and (2) the pipe is protected from
2		the forces exerted by the antic	ipated loads.	
3	r.	"High Consequence Area" sha	all mean a hig	h consequence area as defined and
4		identified pursuant to 49 C.F.I	R. §§ 195.450	, 195.452.
5	S.	"ILI" shall mean in-line inspe	ction.	
6	t.	"ILI Vendor" shall mean a ve	ndor in the bu	siness of performing ILIs of
7		hazardous liquid pipelines usi	ng ILI tools th	nat generate data regarding suspected
		defects on hazardous liquid pi	pelines and pr	roviding analysis of the data.
8	u.	"Independent Monitoring Cor	ntractor" or "I	MC" shall mean the Independent
9		Monitoring Contractor selecte	ed pursuant to	Section XIV of this Appendix.
10	V.	"Metal Loss Tool" shall mean	a high resolu	tion magnetic flux leakage tool or an
11		alternative tool selected pursu	ant to Paragra	ph 5 of this Appendix.
12	W.	"MOP" shall mean maximum	operating pre	ssure.
13	X.	"NACE" shall mean National	Association o	of Corrosion Engineers.
14	y.	"NACE RP0169-2002" shall	mean a docum	nent entitled "Standard Recommended
15		Practice: Control of External	Corrosion on	Underground or Submerged Metallic
16		Piping Systems," NACE RP0	169-2002, orig	ginally approved in 1969, reaffirmed
17		in 2002, a copy of which is at	tached to, and	incorporated into this Appendix as
18		Exhibit 7.		
19	Z.	"One-Call System" shall mean	n a notification	n system through which a person can
20		notify owners and operators o	f underground	l lines or facilities of proposed
21		excavations.		
	aa.	"Pipeline" shall mean all main	n transmission	line portions of Shell Pipeline
22		Systems comprising line pipe.		
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- bb. "Responsible Corporate Officer" shall mean the person or persons designated by Shell to perform relevant decision-making functions, and who has authority to sign documents on behalf of Shell with respect to the Decree.
- cc. "Supervisory Control and Data Acquisition (SCADA) System" shall mean a computer-based communications system that gathers, processes, and displays data from field instrumentation and allows an operations controller to execute control functions;
- dd. "Semester" shall mean either the period from January 1 through June 30 of any calendar year, or the period from July 1 through December 31 of any calendar year.
- ee. "Shallow Cover Pipe" shall mean any portion of the Pipeline that crosses under a Commercially Navigable Waterway and which has a depth of cover of less than 24 inches.
- ff. "Shell Pipeline Systems" shall mean the pipeline systems commonly referred to as the East Line Products, North Line Products, Chase Kansas Products, Chase Colorado Products, and Orion Products pipeline systems that are used for transporting petroleum products, and include approximately 2139 miles of pipeline running in the States of Texas, Oklahoma, Colorado, Kansas, Ohio, Illinois, and Indiana and associated structures and buildings used for operations and administration, control equipment, pumps, valves, breakout storage tanks, and other equipment used in the operation of the pipeline systems, and any like additions to the Shell Pipeline Systems made during the pendency of this Consent Decree. The term does not include facilities such as refineries, lube plants, and marine and distribution terminals that are connected to, or associated with the pipelines but which perform separate functions such as storage or blending.

gg. "SMYS" shall mean the specified minimum yield strength.

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hh. "Top-Side of the Pipeline" shall mean the portion of the Pipeline above the 8:00 o'clock and 4:00 o'clock positions on any part of the Pipeline.

#### II. CONSTRUCTION OF THIS APPENDIX

2. If compliance with applicable provisions of ASME, NACE, AGA, or API publications would prevent compliance with this Consent Decree, Shell shall comply with this Consent Decree. If compliance with this Consent Decree or with applicable provisions of ASME, NACE, AGA, or API publications would prevent compliance with applicable laws and regulations, Shell shall comply with applicable laws and regulations. All references to ASME, NACE, AGA, or API publications in this Appendix shall be construed to be specific to the documents incorporated by reference herein and attached as Exhibits to this Appendix, and no such references shall be interpreted to include, or require compliance with, any modifications or amendments to any such documents subsequent to the versions attached as Exhibits to this Appendix.

# III. ILIs, EVALUATIONS, EXCAVATIONS, AND RESPONSE REQUIREMENTSA. Pipelines Covered

3. The Pipeline consists of the segments described in the table below.

Pipeline System	Segment	Nominal Pipe Size	Length (miles)
Chase Kansas Products	Sunset-Eldorado	8"	2.0
Chase Kansas Products	Eldorado-Hudson	10"	107.0
Chase Kansas Products	Hudson-Scott City	10"	146.0
Chase Colorado Products	Scott City-Aurora	10"	228.0
Chase Colorado Products	Aurora to DIA	10"	17.7
Chase Colorado Products	Sunset to Eldorado	16"	2.0
Chase Colorado Products	Eldorado to MP44	10"	44.0
Chase Colorado Products	MP44 to Scott City	12"	185.0
East Line Products	Wood River to	12"	225.0
East Line Products	Zionsville to Lima	12"	127.0
North Line Products	Wood River to Peotone	14"	220.0

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North Line Products	Peotone to Argo	14"	32.0
North Line Products	Peotone to East Chicago	14"	28.0
North Line Products	Argo to Des Plaines	14"	27.0
Orion Products	East Houston to	16"	174.8
Orion Products	Corsicana to Frost	20"	23.0
Orion Products	Frost to Clyde	16"	163.0
Orion Products	Clyde to Abilene	14"	10.0
Orion Products	Abilene to Tye	16"	8.0
Orion Products	Tye to Stanton	16"	116.0
Orion Products	Stanton to Midland	14"	16.0
Orion Products	Midland to Odessa	12"	25.0
Orion Products	Frost to Underwood	12"	69.5
Orion Products	Underwood to Henrietta	12"	89.1
Orion Products	Henrietta to Duncan	12"	48.5
Orion Products	Underwood to Pride	12"	3.0
Orion Products	Pride to Aledo	6"	2.0

#### **B.** ILIs Using Both Deformation and Metal Loss Tools

#### 1. General Requirements

- 4. For each ILI required by this Appendix, Shell shall ensure that each ILI Vendor calibrates the inspection tool in accordance with applicable ILI Vendor standards and that each ILI Vendor provides verification of the calibration to Shell.
- 5. Whenever Shell uses a magnetic flux leakage tool for an ILI required by this Appendix,
  Shell shall use a high resolution magnetic flux leakage tool. Shell may use a Metal Loss
  Tool other than a magnetic flux leakage tool if:
  - a. The alternative Metal Loss Tool is more appropriate, in the exercise of reasonable
     Engineering Judgment, considering the circumstances; and
  - Shell informs EPA of the technical basis for selecting the alternative Metal Loss
     Tool before conducting the ILI.

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#### 2. ILI Schedule

- 6. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the North Line Products Pipeline System within Shell Pipeline Systems: Peotone to East Chicago 14" and Argo to Des Plaines 14". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 7. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Orion Products Pipeline System within Shell Pipeline Systems: Walnut Springs to Clyde 16" (sub-segment), and Frost to Underwood 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 8. Shell shall complete ILIs during 2007 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Orion Products Pipeline System within Shell Pipeline Systems: Abilene to Tye 16", Clyde to Abilene 14" and Frost to Walnut Springs 16"(sub-segment).
- 9. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the Chase Colorado Products Pipeline System within Shell Pipeline Systems: Scott City to Aurora 10", Eldorado to MP44 10", and MP44 to Scott City 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.
- 10. Shell shall complete ILIs during 2003 using both a Metal Loss Tool and a deformation ILI tool on the following segments of the East Line Products Pipeline System within Shell Pipeline Systems: Wood River to Zionsville 12" and Zionsville to Lima 12". For the 2003 ILIs, Shell may utilize any Analyzed ILI Data or other information from ILIs conducted on or after January 1, 2002.

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1	11.	Shell shall complete an ILI during 200	3 using both	a Metal Loss Tool and a deformation
2		ILI tool on the Wood River to Peotone	14" segmen	t of the North Line Products Pipeline
3		System within Shell Pipeline Systems.	For the 200	3 ILI, Shell may utilize any Analyzed
4		ILI Data or other information from ILI	s conducted	on or after January 1, 2002.
5	12.	Shell shall complete ILIs during 2003	using both a	Metal Loss Tool and a deformation
6		ILI tool on the following segments of	the Orion Pro	oducts Pipeline System within Shell
7		Pipeline Systems: Tye to Stanton 16",	Stanton to M	Iidland 14", Underwood to Henrietta
8		12", and Henrietta to Duncan 12". For	the 2003 IL	Is, Shell may utilize any Analyzed ILI
		Data or other information from ILIs co	onducted on o	or after January 1, 2002.
9	13.	Shell shall perform an ILI during 2004	using both a	a Metal Loss Tool and a deformation
0		ILI tool on the Aurora to DIA 10" segr	ment of the C	Chase Colorado Products Pipeline
1		System within Shell Pipeline Systems.		
12	14.	Shell shall perform an ILI during 2004	using both a	a Metal Loss Tool and a deformation
13		ILI tool on the Midland to Odessa 12"	segment of t	he Orion Products Pipeline System
4		within Shell Pipeline Systems.		
15	15.	Shell shall perform an ILI during 2005	using both a	a Metal Loss Tool and a deformation
16		ILI tool on the East Houston to Corsic	ana 16" segn	nent of the Orion Products Pipeline
17		System within Shell Pipeline Systems.		
18	16.	Shell shall perform ILIs during 2006 u	sing both a N	Metal Loss Tool and a deformation ILI
9		tool on the following segments of the	Chase Kansa	s Products Pipeline System within
20		Shell Pipeline Systems: Eldorado to H	udson 10" ar	nd Hudson to Scott City 10".
21	17.	Shell shall perform an ILI during 2006	using both a	a Metal Loss Tool and a deformation
22		ILI tool on the Corsicana to Frost 20"	segment of t	he Orion Products Pipeline System
		within Shell Pipeline Systems.		
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#### C. Evaluation Requirements

18. Within 1 year after completing any ILI required by this Appendix, Shell shall obtain Analyzed ILI Data and shall use reasonable Engineering Judgment to complete an evaluation of that data and other appropriate and adequate information to identify predicted or suspected defects or anomalies described in Paragraph 24 of this Appendix. The date of completion of the evaluation required by this Paragraph shall be deemed the Date of Discovery of the predicted or suspected defects or anomalies identified in the evaluation.

#### D. Excavation and Response Requirements

- 19. After Shell completes any evaluation required by Paragraph 18 of this Appendix, and within the time required by Paragraphs 20-22 of this Appendix, Shell shall:
  - a. excavate and perform a visual inspection and further evaluation to confirm the existence of any defects or anomalies described in Paragraph 24 of this Appendix at each location where such defects or anomalies were predicted or suspected as a result of the evaluation performed pursuant to Paragraph 18 of this Appendix; and
  - b. repair, remove, or replace, any portion of the Pipeline for which visual inspection and further evaluation confirms the existence of any of the defects or anomalies described in Paragraph 24 of this Appendix.
- 20. Excavation and Response Schedule for Pipeline Within a High Consequence Area. For all Pipeline covered by an ILI required by this Appendix and within a High Consequence Area, Shell shall complete all excavation and response requirements in the preceding Paragraph within 9 months from the Date of Discovery as defined in Paragraph 18 of this Appendix, unless Shell has reasonably determined, pursuant to Paragraph 25 of this Appendix, that a reinterpretation of the Analyzed ILI Data is required or that a new ILI must be performed.

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Excavation and Response Schedule for Pipeline Not Within a High Consequence Area. For all Pipeline covered by an ILI required by this Appendix and not located within a High Consequence Area, Shell shall complete all excavation and response requirements in Paragraph 19 of this Appendix within 18 months from the Date of Discovery as defined in Paragraph 18 of this Appendix, unless Shell has reasonably determined, pursuant to Paragraph 25 of this Appendix, that a reinterpretation of the Analyzed ILI Data is required or that a new ILI must be performed.

Immediate Excavation and Response Requirements. Notwithstanding the schedule for excavation and repairs in Paragraphs 20 and 21 of this Appendix and pursuant to Paragraph 19 of this Appendix, as soon as safely possible after the Date of Discovery of predicted or suspected defects or anomalies that would meet the description in Subparagraphs a-d of this Paragraph, Shell shall temporarily reduce the operating pressure at the location of the predicted or suspected defect or anomaly (1) to 80% of the MOP; or (2) in the case of a defect or anomaly described in Subparagraph b of this Paragraph, based on the predicted burst pressure calculated in accordance with ASME B31G-1991 or AGA Project PR-3-805, until Shell has further evaluated the suspected defect or anomaly and completed any required responses. After reducing the operating pressure in accordance with the requirements of the preceding sentence, within 120 Days after the Date of Discovery, Shell shall excavate the predicted or suspected defect or anomaly and repair, remove, or replace any defect or anomaly, as defined in this Paragraph, confirmed by visual examination and further evaluation following excavation, after which the temporary pressure reduction required by the preceding sentence shall no longer be required. The defects or anomalies subject to these requirements are:

metal loss greater than or equal to 80% of the nominal wall thickness regardless a. of pipe dimension;

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1	b.	any defect or anomaly for whic	h a calculation of the remaining strength of the	
2		pipe shows a predicted burst pr	essure less than the established MOP at the	
3		location of the defect or anoma	y as determined by the calculation methods in:	
4		i. ASME B31G-1991;		
5		ii. AGA Project PR-3-805;	or	
6		iii. upon approval by EPA,	which approval may not unreasonably be	
7		withheld, any other suit	able calculation method;	
	c.	a dent on the Top-Side of the P	peline that has an indication of metal loss,	
8		cracking, or a stress riser; and		
9	d.	a dent on the Top-Side of the P	peline with a depth exceeding 6% of the nominal	
10		pipe diameter.		
11	23. She	ll shall perform the repair, removal	or replacement of any portion of the Pipeline	
12	pur	pursuant to Paragraphs 19-22 of this Appendix in accordance with the standards in		
13	AS	ASME B31.4-2002 Parts 451.6.2 and 451.6.3.		
14	E.	Response Standards		
15	24. In a	ccordance with the schedule in Par	agraphs 20-22 of this Appendix, Shell shall repair	
16	rem	remove, or replace any portion of the Pipeline that has any of the following defects or		
17	anomalies:			
18	a.	dents of any size containing a s	cratch, crack, gouge, or groove;	
19	b.	dents of any size that have an in	adication of metal loss, cracking, or a stress riser;	
	c.	dents of any size that affect pip	e curvature at the pipe seam or at any girth weld;	
20	d.	dents exceeding a depth of 6%	of the nominal pipe diameter;	
21	e.	corrosion of, or along, seam we	lds;	
22	f.	any defect or anomaly for whic	h a calculation of the remaining strength of the	
23		pipe using the criterion in ASM	E B31G-1991 or AGA Project PR-3-805 shows a	
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1		predicted burst pressure less th	an or equal to 100% of the SMYS of the affected
2		pipe;	
3	g.	metal loss greater than 50% of	the nominal wall thickness in areas of general
4		corrosion;	
5	h.	metal loss greater than 50% of	the nominal wall thickness that is located at the
6		crossing of another pipeline, or	is in an area with widespread circumferential
7		corrosion, or is in an area that of	could affect a girth weld;
8	i.	metal loss greater than or equal	to 80% of the nominal wall thickness regardless
		of pipe dimension;	
9	j.	weld anomalies with metal loss	greater than 50% of nominal wall thickness;
10	k.	cracks of any size;	
11	1.	gouges, and grooves of any siz	e;
12	m.	arc burns of any size;	
13	n.	localized corrosion pitting as defined by ASME B31.4 § 451.6.2(a)(7); or	
14	0.	any defect or anomaly for whi	ch a calculation of the remaining strength of the
15		pipe shows a predicted burst pr	essure less than the established MOP at the
16		location of the defect or anoma	ly as determined by the calculation methods in:
17		i. ASME B31G-1991;	
18		ii. AGA Project PR-3-805	; or
19		iii. upon approval by EPA,	which approval may not unreasonably be
20		withheld, any other suit	able calculation method.
21	Nothing in this Appendix shall be or is intended to be an admission or concession by		
	Shell that any of the conditions set forth in this Paragraph or in Paragraph 22 of this		
22	Appendix, if not immediately corrected, would likely result in a failure of the Pipeline or		
23	a relea	se of petroleum products from the	nat Pipeline.
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## F. Reinterpretation of ILI Data or Performance of New ILI

- If during excavation or visual inspection and further evaluation of the predicted or suspected defects or anomalies identified pursuant to Paragraph 18 of this Appendix, Shell has a reasonable basis to determine that the anomalies described in the Analyzed ILI Data are characterized incorrectly or otherwise do not allow a reasonably accurate identification of defects or anomalies described in Paragraph 24 of this Appendix, Shell may, based on reasonable Engineering Judgment, elect to cease excavation and evaluation activities and consult with the ILI Vendor to determine whether to require a reinterpretation of the Analyzed ILI Data or to perform a new ILI. If Shell elects to cease excavation and evaluation activities, Shell shall notify EPA and the Independent Monitoring Contractor of the election no later than 60 Days before the original deadline for completing the excavation and response.
- a. Within 60 Days after the date that Shell notifies EPA and the Independent Monitoring Contractor of its election to cease excavation and response activities, Shell shall either:
  - i. submit to EPA and the Independent Monitoring Contractor a written commitment to complete a reinterpretation and new evaluation of the Analyzed ILI Data and report to EPA and the Independent Monitoring Contractor the results of the new evaluation, including the Date of Discovery of any defects or anomalies pursuant to the new evaluation, within 90 Days of the date of the written commitment; or
  - ii. submit to EPA and the Independent Monitoring Contractor a written commitment to conduct a replacement ILI within 270 Days of the date of the written commitment.
- If Shell elects to complete a reinterpretation and new evaluation of the Analyzed
   ILI Data in accordance with the Subparagraph a.i of this Paragraph, and

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recommences excavation and response activities and reasonably determines that the reinterpretation and new evaluation of the Analyzed ILI Data still improperly characterizes the defects or anomalies or otherwise does not allow a reasonably accurate identification of defects or anomalies described in Paragraph 24 of this Appendix, Shell shall submit to EPA and the Independent Monitoring Contractor a written commitment to conduct a replacement ILI within one year of the date of the commitment pursuant to Subparagraph a.i of this Paragraph to complete a reinterpretation and new evaluation of the Analyzed ILI Data.

c. Whenever Shell proceeds with a replacement ILI pursuant to this Paragraph,
Shell shall complete a new evaluation of the Analyzed ILI Data from the
replacement ILI, and other appropriate and adequate information, within the time
required by Paragraph 18 of this Appendix, and shall complete any required
excavations, repairs, removals, or replacements within the time required by
Paragraphs 20-22 of this Appendix.

#### G. Dispute Resolution Regarding Shell's Obligations Pursuant to Paragraphs 18 through 25 of this Appendix

- 26. Shell shall include a written Notice of Completion in the Semiannual Progress Report for the Semester in which Shell completes all evaluation, excavation, and response actions required by Subsections III.C and III.D of this Appendix for a particular Pipeline segment.
  - a. Within 120 Days of the date of any Semiannual Progress Report containing a Notice of Completion described in the preceding sentence, or at any time before receiving the Notice of Completion, EPA may submit to Shell a written Notice of Review stating that EPA seeks further review of all or part of Shell's evaluation, excavation, and response actions for a Pipeline segment.

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- b. Within 30 Days of the date of any Notice of Review, or such longer period to which EPA and Shell agree in writing, Shell shall meet with EPA and, at EPA's option, any authorized representatives or EPA contractors, to discuss EPA's concerns.
- c. Within 30 Days after the conclusion of any meeting required by the preceding sentence, EPA may issue to Shell a written preliminary Notice of Dispute briefly describing the elements of the dispute.
- d. Within 20 Days after the date of any preliminary Notice of Dispute, Shell may submit to EPA a written response.
- e. If EPA does not rescind a preliminary Notice of Dispute in writing within 45 Days of such notice, or such longer period to which EPA and Shell agree in writing, the preliminary Notice of Dispute shall become final.
- f. Within 10 Working Days after a Notice of Dispute becomes final, a petition for review may be filed with the Court to resolve the dispute. In any such proceeding, the Court will determine whether Shell's evaluation or response actions meet the requirements of Paragraphs 18-25 of this Appendix.
- g. Notwithstanding any other provisions of this Appendix or the Consent Decree, the dispute resolution procedures described in this Paragraph shall be the exclusive mechanism for resolving disputes arising under Paragraphs 18 through 25 of this Appendix except as otherwise provided in this Subparagraph. If the United States has not invoked the dispute resolution procedures in this Paragraph, however, the United States may invoke any available procedure other than the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree to resolve any issue arising under Paragraphs 18 through 25 of the Appendix.

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#### H. Extensions of Time to Complete Evaluation and Response Actions

27.

If Shell cannot complete the evaluation or response actions in the time required by Paragraphs 18, 20-22 and 25 of this Appendix despite reasonable and diligent efforts to do so, Shell may submit a written request for an extension of time to EPA, specifying the number of Days of the requested extension, at least 45 Days before the expiration of the relevant deadline. After receiving a written request for an extension of time from Shell pursuant to this Paragraph, EPA shall provide Shell with a written response in which EPA may, in its discretion, either grant or deny, in whole or in part, the requested extension of time. EPA shall not unreasonably deny a request for extension of time pursuant to this Paragraph. If EPA provides Shell with a written response denying Shell's request for an extension of time, the original deadline will remain in effect unless the date that Shell receives EPA's letter denying the extension of time is less than 30 Days before, or at any time after, the original deadline, in which case Shell shall be required to complete the evaluation or response actions within 30 Days of the date that Shell receives EPA's denial.

#### I. Data Submission and Record Retention Requirements

- 28. Within 10 Days after receiving any request from EPA for a copy of any ILI data or Analyzed ILI Data, Shell shall submit the requested ILI data or Analyzed ILI Data to EPA.
- 29. <u>Record Retention</u>. Shell shall retain all ILI data and Analyzed ILI Data in accordance with the record retention provisions of Section XVI of the Consent Decree.

#### IV. PRESSURE TESTING

30. Shell shall perform either an ILI pursuant to the requirements of Section III of this Appendix, or a hydrostatic test during 2003 in accordance with the standards and requirements of ASME B31.4-2002, Paragraph 437.4.1 and API RP 1110, on the Sunset

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#### V. CLOSE INTERVAL SURVEYS

- 36. Performance Standard for Cathodic Protection. Shell shall maintain a Cathodic Protection System on all Pipeline within Shell Pipeline Systems in accordance with NACE RP0169-2002. Shell shall follow corrosion control criteria in NACE RP0169-2002 including one or more of the criteria and other conditions for cathodic protection in section 6 of NACE RP0169-2002.
- 37. Close Interval Surveys. Shell shall complete one close interval survey on all Pipeline within Shell Pipeline Systems within 4 years of the Effective Date of the Consent Decree. Shell shall perform the close interval survey in accordance with NACE RP0169-2002 at maximum intervals of four feet (maintaining an overall system-wide average no greater than three feet) excluding areas in which such an interval is impracticable such as paved areas and railroads. Shell shall perform the close interval survey in a manner sufficient to determine whether or not the Cathodic Protection System conforms with the criteria referenced in the preceding Paragraph for all locations surveyed. Shell may utilize any data or other information from the close interval survey conducted during 2002 to meet the requirements of this Paragraph.
- 38. <u>Corrective Action</u>. If any portion of the Pipeline within Shell Pipeline Systems does not meet the performance standard referenced in Paragraph 36 of this Appendix, Shell shall perform all corrective action necessary to comply with that standard within 2 years after completing the close interval survey required by the preceding Paragraph.
- 39. Rotating Disk Visual Indicator Requirements. Within 3 years after the Effective Date of the Consent Decree, Shell shall install rotating disc visual indicators on all rectifiers within Shell Pipeline Systems. Within 1 year after installing the rotating disk visual indicators, and annually thereafter until the Consent Decree is terminated, Shell shall complete an on the ground survey to check the rotating disk visual indicator on each

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Exposed Pipe. Shell shall, within 180 Days after completing the survey required by Paragraph 41 of this Appendix, conduct an inspection of any Exposed Pipe discovered during the survey to determine whether or not the Exposed Pipe has any of the defects or anomalies described in Paragraph 24 of this Appendix unless Shell needs to obtain a permit or access before conducting the inspection. If Shell needs to obtain a permit or access before conducting the inspection, Shell shall (1) apply for the permit within 90 Days after completing the survey in which the Exposed Pipe was discovered; and (2) conduct the inspection within 180 Days after obtaining the necessary permit or access. If an inspection confirms the existence of any such defect or anomaly, Shell shall repair, remove, or replace the Exposed Pipe in accordance with the standards referenced in Paragraph 23 of this Appendix and in accordance with the applicable schedule required by Paragraphs 20-22 of this Appendix, using the date of inspection as the Date of Discovery. Shell shall, at the time of any such repair, removal, or replacement, evaluate the risk of outside force damage to the Exposed Pipe, and in areas susceptible to outside force damage shall either (1) restore the cover to the standards in ASME B31.4-2002. Table 434.6(a); or (2) install physical protective measures necessary to provide reasonable assurance of safety and integrity of the Pipeline. For all other Exposed Pipe locations, Shell shall annually inspect such locations in accordance with this Paragraph.

- 45. <u>Shallow Cover Pipe</u>. Within 18 months after Shell discovers Shallow Cover Pipe during the inspection required by Paragraph 42 of this Appendix, Shell shall either:
  - a. restore the cover to the standards in ASME B31.4-2002, Table 434.6(a); or
  - b. with EPA's prior written approval, mitigate the Shallow Cover Pipe in a manner sufficient to provide reasonable assurance of safety and integrity of the Pipeline.
- 46. <u>Pipeline Visibility and Accessibility</u>. Within one year after completing the initial survey required by Paragraph 41 of this Appendix, and once every two years thereafter until the Consent Decree is terminated, to the extent practicable, Shell shall mow, clear brush, and

perform all other actions necessary to ensure that the entire Pipeline right-of-way is visible and accessible for effective emergency response, Pipeline maintenance, inspection, and survey activities.

47. <u>Pipeline Signs</u>. Within two years of the Effective Date of the Consent Decree, and once every two years thereafter, Shell shall, as practicable, install, repair, clear vegetation obscuring, or replace, as necessary, pipeline signs directly above or in close proximity to the buried Pipeline so that, to the extent practicable, at least one pipeline sign is visible from any point along the Pipeline right-of-way.

#### VII. EMERGENCY FLOW RESTRICTIVE DEVICES

- 48. <u>Shell EFRD Analysis</u>. Within one year after the Effective Date of this Consent Decree, using its proprietary spill model, surge analysis, and other appropriate information or data, Shell shall complete an analysis to determine appropriate locations for installation of EFRDs that will provide additional protection to the public or the environment.
- 49. <u>EFRD Installation</u>. Within 4 years of the Effective Date of the Consent Decree, Shell shall install 8 EFRDs within Shell Pipeline Systems that will provide additional protection to the public or the environment.

## VIII. COMPUTATIONAL PIPELINE MONITORING SYSTEM LEAK DETECTION TESTING

50. Testing Requirement. Within 180 Days after the Effective Date of the Consent Decree, Shell shall conduct a computational pipeline monitoring (CPM) system test on at least two of the Pipelines within Shell Pipeline Systems to determine whether or not the leak detection capability of the CPM software meets the performance standards and requirements of applicable regulatory requirements and API 1130. Within one year after Shell performs the CPM tests described in the preceding sentence, Shell shall perform one CPM test on each of the Pipelines that have not yet been tested. Following the completion of the initial CPM tests described in the first two sentences of this Paragraph,

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- Shell shall repeat those CPM tests on all of the pipelines within Shell Pipeline Systems at least once every two years.
- 51. <u>Corrective Action</u>. If the testing required by the preceding Paragraph reveals that the leak detection capability of the CPM software does not meet the performance standards and requirements of applicable regulatory requirements and API 1130, Shell shall, within 6 months after completing the testing, perform all corrective action necessary to meet those performance standards and requirements.

#### IX. DAMAGE PREVENTION PROGRAM

- 52. Within 180 Days of the Effective Date of this Consent Decree, Shell shall submit to EPA and the Independent Monitoring Contractor a written Damage Prevention Program, which Shell shall implement within the time required by Paragraph 61 of this Appendix. The Damage Prevention Program shall require Shell to conduct the activities described below:
  - a. Shell shall continuously participate in a One-Call System covering each area in which a Pipeline operated by Shell Pipeline Systems is located.
  - b. For all Excavation Activity within 50 feet of the Pipeline right-of-way that has any potential to affect the integrity of the Pipeline of which Shell or its contractors either knows or should know through a One-Call System, patrolling, or observation, Shell shall:
    - 1. obtain, if available, daily from the Excavator information regarding the construction schedule and any changes to the schedule;
    - obtain, if available, daily from the Excavator information regarding the type of excavation and equipment the Excavator plans to use and any changes to those plans;
    - 3. obtain, if available, from the Excavator and retain drawings, plans, and any other documents necessary or helpful to monitor the Excavation

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time required by Paragraph 61 of this Appendix. The Training Program shall require the activities described below:

- a. Shell shall appoint one or more SCADA Controller Training Coordinator(s)
  responsible for training, maintaining training documentation, and ensuring that
  Shell complies with all provisions of this Paragraph.
- b. For all new SCADA controllers of Shell Pipeline Systems hired on or after the Effective Date of this Consent Decree, Shell shall:
  - include in the training required by this Subparagraph classroom and practical exercises and the use of a pipeline simulator;
  - provide training and qualification testing pursuant to API 1161, specific to the SCADA system in use that includes responding to abnormal operations and starting up and shutting down any part of the Shell Pipeline Systems;
  - test each new SCADA controller's knowledge of the SCADA system to ensure that the SCADA controller is capable of exercising sound judgment to perform the functions needed during both normal and abnormal operations; and
  - 4. require the new SCADA controller to work daylight shift for a minimum of the first two weeks of performing SCADA functions.
- c. For all SCADA controllers of Shell Pipeline Systems hired before the EffectiveDate of this Consent Decree, Shell shall:
  - review the training and qualification records of each SCADA controller to determine whether or not each SCADA controller is capable of exercising sound judgment to perform the functions needed during both normal and abnormal conditions; and

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1			2.	perform remedial tr	aining and revie	w for each SCADA controller, if		
2				necessary.				
3		d.	Shell s	shall ensure that the p	provisions of the	Training Program are cross		
4			referen	nced in Shell's writte	n procedures and	d plans for training, operations,		
5			mainte	enance, and emergend	cies, as applicab	le.		
6	55.	Audit	of the T	<u> Training Program</u> . Be	etween two and t	three years after the Effective Date of		
7		the Co	nsent D	ecree, Shell shall con	nduct, and prepa	re a written report of, an audit of		
8		Shell's	s SCAD	A Controller Trainin	ng Program in ac	cordance with the requirements of		
		Paragr	aphs 56	and 57 of this Appe	ndix. Within 15	Days of the date of the written audit		
9		report,	Shell s	hall submit the writte	en audit report to	EPA and the Independent		
10		Monit	oring C	ontractor.				
11	56.	Scope	of Aud	it. At a minimum, th	e audit required	by the preceding Paragraph shall		
12		includ	include SCADA controller interviews and a review of all relevant documents including,					
13		but no	but not limited to:					
14		a.	the wr	itten SCADA Contro	oller Training Pro	ogram;		
15		b.	SCAD	A controller training	records;			
16		c.	SCAD	A controller training	manuals;			
17		d.	Shell's	s written procedures a	and plans for SC	ADA controller training; and		
18		e.	Semia	nnual Progress Repor	rts.			
19	57.	Conte	nts of A	udit Report. The wri	itten audit report	required pursuant to Paragraph 55 or		
20		this A	ppendix	shall include a descr	ription of the aud	dit methodology, and also shall		
21		includ	e:					
		a.	a desci	ription of the docume	ents reviewed;			
22		b.	a list o	of SCADA controllers	s interviewed an	d their titles, and a summary of each		
23			intervi	ew; and				
24		c.	a desci	ription of the audit fi	ndings.			
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					- <i>_</i> / <b>-</b>	1 crephone. 202-303-0300		

1 2	XII.	PROCEDURE FOR INDEPENDENT REVIEW AND IMPLEMENTATION OF WRITTEN PROGRAMS REQUIRED PURSUANT TO SECTIONS IX-XI OF THIS APPENDIX						
3	58.	Independent Review. After receiving from Shell a written program required by						
4		Sections IX, X, or XI of this Appendix, or a revised written program pursuant to						
5		Paragraph 59.a or Paragraph 60 of this Appendix, EPA and the Independent Monitoring						
6		Contractor shall review the written program and EPA shall provide Shell with a written						
7		response that either:						
8		a. states that the written program or revised written program meets the requirements						
9		of the Appendix to the best of EPA's knowledge and that EPA has no objection to						
		the written program or revised written program; or						
10		b. requires revisions to the written program or revised written program necessary to						
11		ensure compliance with the Consent Decree and this Appendix.						
12	59.	Shell's Response. If EPA requires revisions to a written program submitted by Shell						
13		pursuant to Paragraph 58.b of this Appendix, within 30 Days of the date of EPA's						
14		written response, Shell shall either:						
15		a. make the required revisions and submit a revised written program to EPA; or						
16		b. submit to EPA a written Notice of Dispute pursuant to Paragraph 35 of the						
17		Consent Decree that states Shell's grounds for disputing any or all of EPA's						
18		required revisions.						
19	60.	Submission of Revised Written Programs Following Resolution of Disputes. Within						
20		30 Days after resolving any disputes, asserted pursuant to Paragraph 59.b of this						
21		Appendix, regarding any of EPA's required revisions to any written program, Shell shall						
22		submit a revised written program to EPA that reflects the resolution of the dispute.						
23	61.	<u>Implementation of Written Programs</u> . Within 30 Days after the date of a written EPA						
		response pursuant to Paragraph 58.a of this Appendix, Shell shall implement the written						
24		program or revised written program.						
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#### XIII. INDEPENDENT MONITORING CONTRACTOR

- 62. Shell shall follow the procedure in Section XIV of this Appendix to select, and contract with, an Independent Monitoring Contractor (IMC) to perform the duties described in Paragraph 65 of this Appendix. The IMC shall assign no more than 4 qualified employees to perform these duties.
- 63. Shell shall cooperate fully with the IMC and shall facilitate the IMC's execution of duties described in Paragraph 65 of this Appendix by providing the IMC with reasonable access to all relevant records, employees, and the physical Shell Pipeline Systems.
- 64. Qualifications. The IMC shall have one or more employees with demonstrated qualifications and experience in the technical areas relevant to the duties of the Independent Monitoring Contractor in Paragraph 65 of this Appendix. With the prior expressed approval of both EPA and Shell, the Independent Monitoring Contractor may also contract, as appropriate, with other outside individuals or entities that are qualified to perform the assigned tasks and satisfy the background requirements of Paragraph 67 of this Appendix.
- 65. <u>Duties of the Independent Monitoring Contractor</u>. The Independent Monitoring Contractor shall perform the following duties:
  - a. review each Semiannual Report submitted by Shell pursuant to Paragraph 13 of the Consent Decree, and any other documents that the Independent Monitoring Contractor or EPA deems necessary, to determine whether or not Shell has complied with all provisions of the Consent Decree and this Appendix and report any determinations of non-compliance to Shell and EPA within 30 Days of the date of each Semiannual Report; provided, however, that the IMC's duties within the scope of this Appendix or the Consent Decree shall not include reviewing ILI data or Analyzed ILI Data;

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- b. Review the programs submitted by Shell pursuant to Sections IX-XI of this Appendix to recommend any revisions necessary to ensure compliance with the Consent Decree and this Appendix and submit those recommendations to both EPA and Shell within 30 Days after the date that Shell submits each proposed program;
- c. review and analyze the written audit report of the Training Program that Shell submits pursuant to Section XI of this Appendix and notify EPA and Shell of any determinations of non-compliance with this Appendix revealed by the Independent Monitoring Contractor's analysis of the written audit report;
- d. on each of the following pipeline systems within Shell Pipeline Systems: East Line Products, North Line Products, Chase Kansas Products, Chase Colorado Products, and Orion Products, each calendar year conduct up to one physical site visit, with up to 4 persons, lasting up to 3 Days for each visit, including employee or contractor interviews, record review, and inspections and observations of any activities if deemed appropriate, to assess whether or not Shell is complying with this Appendix. Absent emergency, any such site visit shall be made at reasonable times and after reasonable notice to Shell;
- e. each calendar year conduct up to one additional physical site visit, with up to 4 persons, lasting up to 3 Days, other than the site visits in the preceding Subparagraph, on any one of the pipeline systems within Shell Pipeline Systems, in the unreviewable discretion of the Independent Monitoring Contractor or at the request of EPA, including employee or contractor interviews, record review, and inspections and observations of any activities if deemed appropriate, to assess whether or not Shell is complying with this Appendix;
- f. confer on request by either Shell or EPA, separately or jointly, to discuss implementation of this Appendix and to assist in dispute resolution;

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## XIV. PROCEDURE FOR SELECTING, CONTRACTING WITH, AND REPLACING THE INDEPENDENT MONITORING CONTRACTOR

- 67. Qualifications and Background. The Independent Monitoring Contractor shall have the qualifications and experience required by Paragraph 64 of this Appendix. The Independent Monitoring Contractor shall not:
  - a. be a present employee of Shell, or of any owner, parent corporation, subsidiary, or predecessor corporation of Shell;
  - b. have a current financial or ownership interest in any of Shell's businesses or operations; or
  - be a Shell contractor, or employee of such contractor, hired to implement any
    provision of this Appendix other than the provisions of Section XIII (Independent
    Monitoring Contractor).
- 68. <u>Selection Procedure</u>. The Independent Monitoring Contractor shall be selected pursuant to the procedures described below.
  - a. Within 30 Days from the Effective Date of this Consent Decree or 30 Days from the date that the parties agree on the need for a replacement consultant pursuant to Paragraph 70 of this Appendix, or a final decision affirming the need for a replacement consultant is rendered pursuant to the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree, Shell shall submit to EPA (1) a letter providing the name of a proposed independent consultant that is willing to serve as the Independent Monitoring Contractor; (2) a resume or curriculum vitae of each individual who would perform the required work; (3) the terms of payment for the consultant's services; and (4) a description of any current or past financial relationship between the proposed consultant, and the consultant's employees who will perform the required work, and Shell or the related entities specified in the preceding Paragraph, which Shell shall certify as

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accurate. After receiving such information, EPA shall submit a letter to Shell that either accepts or rejects the proposed consultant. EPA shall not unreasonably withhold approval of a proposed consultant. If the letter from EPA accepts the proposed consultant, Shell shall contract with the consultant to perform the required work in accordance with the procedure in Paragraph 69 of this Appendix. If EPA rejects the proposed consultant, Shell shall repeat the procedure in this Paragraph up to two additional times by recommending another proposed consultant.

- b. If EPA rejects three of Shell's proposed consultants, EPA shall then submit to Shell a letter providing (1) the names of at least three proposed independent consultants who are willing to serve; (2) a resume or curriculum vitae of each of consultants' personnel who would perform the required work; and (3) a description of any current or past financial relationship related to this case between each proposed consultant and the United States. Shell then shall have 30 Days from the date of such letter to submit to EPA a letter accepting one of the three proposed consultants or rejecting all of them. If Shell accepts one of the three consultants proposed by EPA, Shell shall contract with the consultant to perform the required work in accordance with the procedure in Paragraph 69 of this Appendix. If Shell rejects all of the consultants proposed by EPA, either EPA or Shell may invoke the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree.
- 69. <u>Contracting Procedure</u>. Within 30 Days of the date of a letter from EPA or Shell accepting a proposed Independent Monitoring Contractor, or a final decision pursuant to the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree designating an Independent Monitoring Contractor, Shell shall draft, and submit to EPA for approval, a proposed contract obligating the Independent Monitoring

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Contractor to perform the duties described in Paragraph 65 of this Appendix. Within 15 Days after the date of any letter from EPA notifying Shell of any needed revisions to the contract with the Independent Monitoring Contractor, Shell shall incorporate, modify, or reject the revisions and submit the revised contract to EPA for approval. Within 30 Days of the date of EPA's written approval of the contract, Shell shall enter into the contract with the Independent Monitoring Contractor, and submit a copy of the executed contract to EPA.

70. Replacement Procedure. If the Independent Monitoring Contractor becomes unable or unwilling to perform or complete the required work, or for other good cause, Shell and EPA shall confer in good faith regarding whether or not Shell and EPA need to select a replacement Independent Monitoring Contractor. If Shell and EPA agree on the need to select a replacement Independent Monitoring Contractor, Shell and EPA shall select the replacement Independent Monitoring Contractor in accordance with the selection procedures in Paragraph 68 of this Appendix. If Shell and EPA do not agree on the need to select a replacement Independent Monitoring Contractor, either Shell or EPA may invoke the dispute resolution procedures in Section XIII (Dispute Resolution) of the Consent Decree.

#### XV. SEMIANNUAL PROGRESS REPORTS

71. <u>Semiannual Progress Reports</u>. Beginning on the Effective Date of this Decree and through and including the Semester in which this Consent Decree is terminated pursuant to Section XXII (Termination Date), Shell shall submit certified Semiannual Progress Reports to EPA and the Independent Monitoring Contractor. The first Semiannual Progress Report shall be due within 45 Days of the close of the first Semester ending more than 90 Days after entry of this Consent Decree, with subsequent reports due within 30 Days of the close of each Semester thereafter.

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72. <u>Certification Requirement</u>. Shell shall submit the following written certification with each Semiannual Progress Report, signed by a Responsible Corporate Official:

I certify under penalty of law that this submission was prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. I further certify under penalty of law that, to the best of my knowledge, based on my reasonable inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

- 73. <u>Contents of Semiannual Progress Reports</u>. Shell shall include in each Semiannual Progress Report a statement regarding Shell's activities during the Semester for each of the categories described below. If no information exists for a particular category during the Semester, Shell nevertheless shall include that category in the report with an affirmative statement that no information exists for that category and a brief explanation why no such information exists. Each Semiannual Progress Report shall describe:
  - a. A summary of all actions Shell has taken to comply with Section III of this Appendix including (1) ILIs conducted; (2) Analyzed ILI Data received; and (3) excavations and responses conducted. Additionally, for each defect or anomaly that Shell excavates or investigates in any way pursuant to Section III of this Appendix, Shell shall describe:
    - the location of the defect or anomaly including, as applicable, state, county, city, latitude and longitude, pipeline milepost segment, and any other information necessary or helpful to precisely identify the location of the anomaly;
    - a pipe description including outside diameter, wall thickness, grade, manufacturer, if known, depth of cover, type of coating, and date of construction;

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1	3.		te of completion of the ILI that identified the location of the defect	
2		or and	omaly;	
3	4.	the identity of the ILI Vendor and a description of the ILI tool used;		
4	5.	ILI details such as the inspection chart number or other comparable		
5		identi	fier, odometer number, and defect or anomaly number;	
6	6.	a desc	eription of the defect or anomaly as represented in the Analyzed ILI	
7		Data 1	report;	
	7.	the Da	ate of Discovery of the defect or anomaly identified Pursuant to	
8		Parag	raph 18 of this Appendix;	
9	8.	the da	te that Shell or its agents excavated and further evaluated the defec	
10		or and	omaly;	
11	9.	a sum	mary of Shell's findings of the evaluation for the defect or anomaly	
12		including:		
13		i.	the depth of gouges and grooves as a percentage of nominal wall	
14			thickness;	
15		ii.	the depth of dents as a percentage of nominal pipe diameter;	
16		iii.	whether or not each dent affected pipe curvature or a seam, girth,	
17			or repair weld and, if so, how;	
		iv.	whether or not each dent contained a scratch, gouge, or groove;	
18			and	
19			(a) the length of each scratch, gouge, and groove; and	
20			(b) the depth of each scratch, gouge, and groove at its deepest	
21			point;	
22		V.	measurements and other field observations regarding crack	
23		٧.	indications; and	
24			marcations, and	
25				
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1		6.	a des	cription of all co	rrective measu	ares taken as a result of the survey; and	
2		7.	a rep	ort of any malfur	nctioning recti	fiers discovered and/or repaired;	
3	d.	a summary of all actions that Shell has taken to comply with Section VI of the					
4		Appendix including:					
5		1.	on-th	e-ground survey	s of the Pipelin	ne right-of-way;	
6		2.	aeria	l surveys of the F	Pipeline right-o	of-way;	
7		3.	Expo	sed Pipe discove	ered, remediate	ed, repaired, replaced, or reburied	
8			inclu	ding:			
9			i.	the location of	the Exposed l	Pipe;	
			ii.	the existence of	of any defects	or anomalies described in	
10				Paragraph 24	of this Append	lix;	
11			iii.	repairs, remov	als, or replace	ments, if any, made; and	
12			iv.	any actions tal	ken to increase	e the depth of cover or install physical	
13				protective dev	ices;		
14		4.	all m	owing, brush cle	aring, and sim	ilar activities;	
15		5.	activ	ities undertaken t	to comply with	n Paragraph 47 of this Appendix and	
16			the d	ate of installation	n of all Pipelin	e signs installed, repaired, or replaced	
17			after	the Effective Da	te of the Conse	ent Decree; and	
18		6.	third	party Excavation	n Activity disc	overed and monitored as a result of	
19			the o	n-the-ground sur	veys required	by Paragraph 41 of this Appendix;	
20			aeria	l surveys require	d by Paragrapl	h 43 of this Appendix; or notifications	
21			throu	gh a One-Call Sy	ystem;		
22	e.	a summary of all actions that Shell has taken to comply with Section VII of the					
23		Appendix including:					
		1.	the lo	ocation of each E	FRD installati	on;	
24							
25	APPENDIX A	A - CV(	)2-117	8R		United States Department of Justice	
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1		2.	the type or specification of the EFR	D installed, including remote operator;
2			and	
3		3.	Shell's analysis for installing the EF	FRD at the location selected;
4	f.	a sum	mary of all actions that Shell has take	en to comply with Section VIII of the
5		Apper	ndix regarding testing of, and correcti	ve action for the computational
6		pipeli	ne monitoring system including:	
7		1.	all tests conducted; and	
		2.	corrective action conducted;	
8	g.	a sum	mary of all actions that Shell has take	en to comply with Section IX of the
9		Apper	ndix including:	
10		1.	revisions of Shell's written procedu	res and plans for training, operations,
11			maintenance, and emergencies as su	ich revisions relate to the Damage
12			Prevention Program, and as appropr	riate; and
13		2.	third party Excavation Activity that	Shell monitored and damage to the
14			Pipeline that Shell identified during	such monitoring;
15	h.	a sum	mary of all actions that Shell has take	en to comply with Section X of the
16		Apper	ndix including:	
17		1.	a brief description of the program as	nd procedures to manage and review
18			all Shell Pipeline Systems pressure,	flow, and control setting changes on
19			existing or newly installed protective	re and control devices; and
20		2.	the date of any revision to Shell's w	ritten procedures and plans for Shell
21			Pipeline Systems to reflect each cha	inge, if any, to adjust pressure, flow,
			and control settings for existing and	newly installed protective and control
22			devices;	
23				
24				
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1	"Exhibit 4" is API RP 1130.	
2	"Exhibit 5" is ASME B31.4-2002.	
3	"Exhibit 6" is ASME B31G-1991.	
4	"Exhibit 7" is NACE RP0169-2002.	
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